ATM-1022 Mechanical Workshop

Module 7

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Grade & Section: \_\_\_\_\_\_\_

**Question 1: Fill in the blanks.**

|  |  |  |  |
| --- | --- | --- | --- |
| threads | Taper Tap | Bottoming tap | Plug tap |
| Plug Tap | Brittle | Burrs | 1.75 |
| 12 | 6.70 | Tap | Tap Drill |
| Hand Tap | Die | T-handle Tap | HSS |

1- Internal threads are made by a tool named\_\_\_\_\_\_\_\_\_\_\_\_

2- the thread with the following tolerance M12 x 1.75 has a major Diameter of \_\_\_\_\_\_\_\_ mm.

3- The drill used to make the hole prior to tapping is called\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4- Threads are started with a\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

5- ­­­­­­­­­­­­­A \_\_\_\_\_\_\_\_\_\_ wrench is used with all small taps

6- The \_\_\_\_\_\_\_\_ is mainly used for drills with straight shanks.

7- External Threads are made by a tool named\_\_\_\_\_\_\_\_\_\_\_\_

8- The tap is made of carbon steel or \_\_\_\_\_\_\_and are carefully heat-treated for long life.

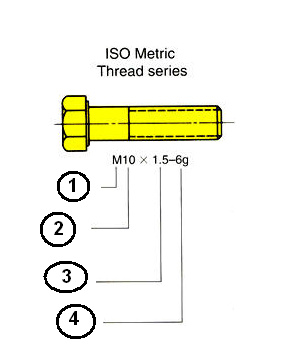
9- Taps are quite\_\_\_\_\_\_\_ and are easily broken if not handled properly.

10 – in order to create the thread with the classification of M8 x 1.25, you have to use a tap drill with the diameter of \_\_\_\_\_\_\_mm.

11- after tapping, you have to Remove \_\_\_\_\_\_on a tapped hole with a smooth file .

12- when you start tapping always Start with the \_\_\_\_\_\_ square with the work.

**Question 2**

**clarify the statements shown by the arrows.**

**Question 3:**

List the three types of taps, and their usage.

**Question 4: Write (T) for True and (F) for False sentences.**

|  |  |  |
| --- | --- | --- |
| No. | **Statement** | **T / F** |
| 1 | A T-handle tap wrench is used with all large taps |  |
| 2 | Tap Drill = Normal size – thread pitch |  |
| 3 | The drill used to make the hole prior to tapping is called a **tap drill** |  |
| 4 | Hand Tap Wrench is used with small taps. |  |
| 5 | The tapped hole should be equal in diameter to the Major diameter of the screw that will be fitted into it. |  |

**Question 5:**

List the rules that you should follow while tapping.